

ABSTRACT OF THE DISCLOSURE

An insulating tube includes a underlying insulating film, a first sidewall insulating film disposed on the
5 underlying insulating film, a second sidewall insulating
film disposed on the underlying insulating film, opposite
to the first sidewall insulating film so as to provide a
cavity between the first and second sidewall insulating
films having the same height as the first sidewall
10 insulating film, and an upper insulating film provided over
the first and second sidewall insulating films.